# *CIT RELAY*™

# CTA5

**FEATURES:**

- Switching capacity up to 40A @ 14VDC
- Small size and light weight
- PCB pin mounting available
- Suitable for automobile and lamp accessories
- Two footprint styles available

24.0x19.0x20.0mm

## CONTACT DATA

| | |
|---|---|
| Contact Arrangement | 1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPDT |
| Contact Rating | 1A: 40A @ 14VDC<br>1B: 30A @ 14VDC, 20A @ 120VAC, 15A @ 28VDC<br>1C: 30A @ 14VDC, 20A @ 120VAC, 15A @ 28VDC |
| Contact Resistance | < 50 milliohms initial |
| Contact Material | AgCdO |
| Maximum Switching Power | 360W |
| Maximum Switching Voltage | 75VDC, 380VAC |
| Maximum Switching Current | 40A |

## COIL DATA

| Coil Voltage VDC | | Coil Resistance Ω ± 10% | | Pick Up Voltage VDC (max) 75% of rated voltage | Release Voltage VDC (min) 10% of rated voltage | Coil Power W | Operate Time ms | Release Time ms |
|---|---|---|---|---|---|---|---|---|
| Rated | Max. | 1.6W | 1.9W | | | | | |
| 6 | 7.8 | 22.5 | 19.0 | 4.2 | 0.6 | 1.6 or 1.9 | 5 | 3 |
| 9 | 11.7 | 50.6 | 42.6 | 6.3 | 0.9 | | | |
| 12 | 15.6 | 90.0 | 75.8 | 8.4 | 1.2 | | | |
| 18 | 23.4 | 202.5 | 170.5 | 12.6 | 1.8 | | | |
| 24 | 31.2 | 360.0 | 303.2 | 16.8 | 2.4 | | | |

**CAUTION:**

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.
2. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

## GENERAL DATA

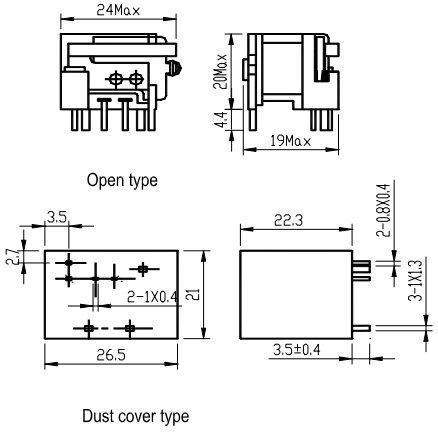
| | |
|---|---|
| Electrical Life @ rated load<br>Mechanical Life | 100K cycles, typical<br>10M cycles, typical |
| Insulation Resistance | 100MΩ min @ 500VDC |
| Dielectric Strength, Coil to Contact<br>Contact to Contact | 750V rms min. @ sea level<br>500V rms min. @ sea level |
| Shock Resistance | 200m/s$^2$ for 11ms |
| Vibration Resistance | 1.27mm double amplitude 10-40Hz |
| Terminal (Copper Alloy) Strength | 10N |
| Operating Temperature<br>Storage Temperature | -40 °C to + 85 °C<br>-40 °C to + 155 °C |
| Solderability | 230 °C ± 2 °C for 10 ± 0.5s |
| Weight | 19g open. 21g covered |

# CIT RELAY™ CTA5

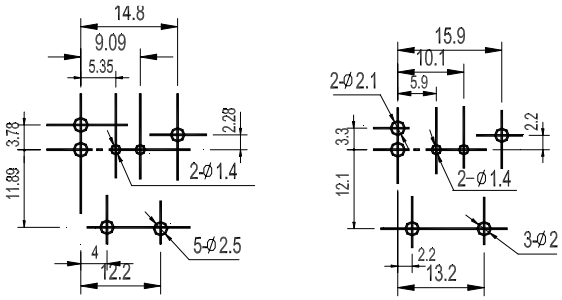
## ORDERING INFORMATION

| 1. Series: | CTA5 | 1A | C | 40 | 12VDC | 1.6 | S |
|---|---|---|---|---|---|---|---|
| CTA5 | | | | | | | |
| **2.Contact Arrangement:**<br>1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPDT | | | | | | | |
| **3. Sealing Options:**<br>O = Open Frame<br>S = Sealed<br>C = Dust Cover | | | | | | | |
| **4. Contact Ratings:**<br>15 = 15A<br>30 = 30A<br>40 = 40A | | | | | | | |
| **5. Coil Voltage:**<br>6VDC<br>9VDC<br>12VDC<br>18VDC<br>24VDC | | | | | | | |
| **6. Coil Power:**<br>1.6 = 1.6W<br>1.9 = 1.9W | | | | | | | |
| **7. PCB Layout:**<br>S = Standard<br>E = European | | | | | | | |

## DIMENSIONS: (Units = mm)

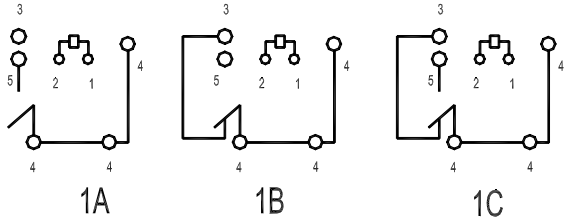



## PCB Layout




**Standard** **European**

## Schematic



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